

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/510,677  
Source: IFWP  
Date Processed by STIC: 12/12/06

# ENTERED



IFWP

## RAW SEQUENCE LISTING

DATE: 12/12/2006

PATENT APPLICATION: US/10/510,677

TIME: 14:39:30

Input Set : F:\API-01-20-US-SeqList.ST25.txt  
 Output Set: N:\CRF4\12122006\J510677.raw

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3 <110> APPLICANT: Sanofi Pasteur, Ltd.
4     Therion Biologics, Inc.
6 <120> TITLE OF INVENTION: Modified CEA Nucleic Acid and Expression Vectors
8 <130> FILE REFERENCE: API-01-20-US
10 <140> CURRENT APPLICATION NUMBER: 10/510,677
C--> 11 <141> CURRENT FILING DATE: 2004-10-06
13 <150> PRIOR APPLICATION NUMBER: US 60/370,972
14 <151> PRIOR FILING DATE: 2002-04-09
16 <160> NUMBER OF SEQ ID NOS: 32
18 <170> SOFTWARE: PatentIn version 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 3564
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
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27 <221> NAME/KEY: misc_feature
28 <222> LOCATION: (1663)..(1663)
29 <223> OTHER INFORMATION: n is a, c, g, or t
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36 ctgcgcggga tcctcaactga cgtcacgctg ctggttggcg ggcaaccccct cagagcacac 180
38 aaggcagttc tcatgcctg cagtggcttc ttctattcaa tttccgggg ccgtgcggga 240
40 gtccgggttgg acgtgctctc tctgcccggg ggtcccgaaag cgagaggctt cgccctcta 300
42 ttggacttca tgtacacttc gcgcctgcgc ctctctccag ccactgcacc agcagtccta 360
44 gcggccgcca cctatttgc gatggagcac gtggccagg catgccaccg cttcatccag 420
46 gcoagctatg aacctctggg catctccctg cgccccctgg aagcagaacc cccaacaccc 480
48 ccaacggccc ctccacccagg tagtcccagg cgctccgaag gacacccaga cccacctact 540
50 gaatctcgaa gctcaagtca agccccccccc agtccagcca gccctgaccc caaggcctgc 600
52 aactggaaaa agtacaagta catcggtcta aactctcagg cctcccaagc agggagcctg 660
54 gtccgggaga gaagtctgg tcaaccttgc ccccaagcca ggctcccccag tggagacgag 720
56 gcctccagca gcagcagcag cagcagcagc agcagcagtg aagaaggacc catttctgg 780
58 ccccaagagca ggctctctcc aactgctgcc actgtcagt tcaaattgtgg ggctccagcc 840
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62 gctcgccac taccggagt gaattttca gctccagaa ctgtgaggt gtggcagggt 960
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68 gggaaaaagc cttaccactg ctcaatctgc ggagcccggtt ttaaccggcc agcaaaccctg 1140
70 aaaacgcaca gccgcatacca ttccggagag aagccgtata agtgtgagac gtgcggctcg 1200
72 cgcttgatc aggtggcaca tctgcggcg cacgtgctga tccacaccgg ggagaagcccc 1260
74 tacccttgcc ctacctgcgg aacccgccttc cgccacctgc agaccctcaa gagccacgtt 1320
76 cgcatccaca ccggagagaa gccttaccac tgccacccct gtggcctgca tttccggcac 1380
78 aagagtcaac tgccggctgca tctgcgcacaa aaacacggag ctgctaccaa caccaaagtg 1440

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80	cactaccaca	ttctcgaaaa	gccctagctg	agcgcaggcc	caggccccac	ttgcttcctg	1500	
82	cggtggaa	agctgcagggc	ccaggccttg	cttccctatc	aggcttggc	ataggggtgt	1560	
84	gccaggccac	tttggtatca	gaaattgcca	ccctttaat	ttctcactgg	ggagagcagg	1620	
W--> 86	ggtggcagat	cctggctaga	tctgcctctg	ttttgctgtt	canaccctct	tccccacaag	1680	
88	ccagattgtt	tctgaggaga	gagctagcta	ggggctggga	aaggggagag	attggagtcc	1740	
90	tggctccct	aaggaaatag	ccctccacct	gtggccccc	ttgcattcag	tttatctgta	1800	
92	aaatataatt	tattgaggcc	tttgggtggc	accggggct	tcattcatt	gcatttccca	1860	
94	ctcccccttt	ccacaagtgt	gattaaaagt	gaccagaaac	acagaaggtg	agatcacagc	1920	
96	tctgctggca	gagattacta	gcccttggct	ctctcgat	gttgggtat	tttatattat	1980	
98	ttctgtcata	actttatct	ttagaattgt	tcttccttct	gttgggttgc	ttgttagttt	2040	
100	gttaaaatg	aaaaaagggg	ttctctgtgt	tctgcccctg	taattctagg	tctggAACCT	2100	
102	ttatTTgttc	tagggcagct	ctgggaacat	gcgggattgt	ggaattgggt	caggaaccct	2160	
104	ctctggatt	ctggatgtt	tagttctct	agcagtctag	aatggatac	agacatttct	2220	
106	ctgttctca	agggtatag	gaaccattat	gttggccca	aatggaaatg	aataataaaat	2280	
108	gcctcctgga	ggctgtgggt	gtgggggatt	ctgtatctgg	attccgtatc	actccaaactg	2340	
110	gaggctgtgg	gtgtggggga	ttctgtatct	ggattccgt	tcactccaa	tggaggctgg	2400	
112	caggTTTTTC	tgcaagatgg	tccagaatct	aaaatgtccc	attaatctgg	tcacttgggt	2460	
114	ttggctctgc	tgtatccatc	tatagtggta	gagaccacc	agggctcaag	tggagtccat	2520	
116	catcctccca	cggggcctg	ttcttagtac	tgagttgate	gctccatggg	ggagagatca	2580	
118	gacattcctt	atcagagatg	atgtgacctt	ttctgactct	gcccagtc	tatgaatgtt	2640	
120	atggcctagg	gaagaatcat	gaaactctt	agcttgatta	gatggtaaac	agtgttaacc	2700	
122	catcctttac	tacagaggca	tatgggttt	aatgttacct	ggggttctct	ctattgagtt	2760	
124	gagcccttc	ttccttagt	gggttttgg	catctctgg	caagtgtcc	gatgccagaa	2820	
126	cottcttttc	ctctagaagg	gatgggtctt	ggtaacctt	ccttttaaaa	gctgggtctg	2880	
128	tgacctggtc	ttcccatccc	tgcattcctg	tctggaaacc	gtgaatgcat	tagaaccttc	2940	
130	cataggaaaa	aaaaaggggc	tgagttccat	tctgggttt	ctgtagttt	gttgggattta	3000	
132	ttgttggcat	tacagatgt	aaagattgac	tagccatag	gccaaaggcc	tgttctagtt	3060	
134	gaccaagtt	caagtaggt	taagaggtt	gttgggggt	gcagttctg	gtgtaggccaa	3120	
136	ggtaggtaga	aagttaggaa	cagggttggc	tcttggctgg	gtggagtctc	tgaatgtta	3180	
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142	ataagtca	tctagtggct	gtcgccctgg	gactagttag	aaagctactc	ttctccctct	3360	
144	tcccttttcc	ccccatggc	cccactgcag	aattaaagaa	ggaagaaggg	aaggcggagg	3420	
146	agtctataag	aaggaatcat	gatttctatt	tagcagattt	gatgggcagg	tggagaatgc	3480	
148	ctgggggtag	aaatgttaga	tcttgcaaca	tca	gatcctt	ggaataaaga	agcctctct	3540
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161	tccctccgacg	tgtctggcaa	cctcaacagag	ctgcgcctgc	gcgggatct	cactgacgtc	120	
163	acgctgctgg	ttggcgggca	acccctcaga	gcacacaagg	cagttctcat	cgctgcgt	180	
165	gccttcttct	attcaatttt	ccggggccgt	gcgggatct	gggtggacgt	gtctctct	240	
167	cccgggggtc	ccgaagcggag	aggcttcg	cctctattgg	acttcatgt	cacttcgcgc	300	
169	ctgcgcctct	ctccagccac	tgcaccagca	gtccttagcgg	ccgcccacca	tttgcagat	360	
171	gagcacgtgg	tccaggcatg	ccaccgc	atccaggcca	gctatgaacc	tctggcattc	420	
173	tccctgcgccc	ccctggaagc	agaacccca	acacccca	cgccccctcc	accaggtat	480	

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177	ccccccagtc	cagccagccc	tgacccccaaag	gcctgcaact	ggaaaaagta	caagtacatc	600
179	gtgctaaact	ctcaggcctc	ccaagcaggg	agcctggctg	gggagagaag	ttctggtcaa	660
181	ccttgc(ccc)	aagccaggct	ccccagtgg	gacgaggcct	ccagcagcag	cagcagcagc	720
183	agcagcagca	gtgaagaagg	accattctt	ggtccccaga	gcaggctctc	tccaaactgtct	780
185	gccactgtgc	agttcaaata	tggggctcca	gccagtaccc	cctacccctt	cacatcccag	840
187	gctcaagaca	cctctggatc	accctctgaa	cgggctcg	cactaccggg	aagtgaattt	900
189	ttcagctgcc	agaactgtga	ggctgtggca	gggtgctcat	cggggctgg	ctccttgg	960
191	cctggggacg	aagacaaaacc	ctataagtgt	cagctgtgcc	ggtcttcgtt	ccgctacaag	1020
193	ggcaaccttg	ccagtcatcg	tacagtgcac	acaggggaaa	agccttacca	ctgtcaatc	1080
195	tgeggagccc	gttttaaccg	gccagcaaac	ctgaaaacgc	acagccgcat	ccattcggg	1140
197	gagaagccgt	ataagtgtga	gacgtgcggc	tcgcgtttt	tacaggtggc	acatctgcgg	1200
199	gcmcacgtgc	tgatccacac	cggggagaag	ccctaccctt	gccctacctg	cggAACCCG	1260
201	ttccgcccacc	tgcagaccct	caagagccac	gttcgcac	acaccggaga	gaagccttac	1320
203	cactgcgacc	cctgtggcct	gcatttccgg	cacaagagtc	aactgcgct	gcatctgcgc	1380
205	cagaaacacg	gagctgtac	caacacaaaa	gtgcactacc	acattctcg	ggggccctag	1440
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209	<211>	LENGTH:	65				
210	<212>	TYPE:	DNA				
211	<213>	ORGANISM:	Homo sapiens				
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216	agatg						65
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231	<211>	LENGTH:	70				
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Input Set : F:\API-01-20-US-SeqList.ST25.txt  
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274 <210> SEQ ID NO: 9	
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296 <210> SEQ ID NO: 11	
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308 <211> LENGTH: 70	
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312 <400> SEQUENCE: 12	
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315 cgtaatcgt	70
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320 <212> TYPE: DNA	
321 <213> ORGANISM: Homo sapiens	
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/510,677

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Input Set : F:\API-01-20-US-SeqList.ST25.txt  
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345 <400> SEQUENCE: 15
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348 gaacttgagc ctttcttgcc 80
351 <210> SEQ ID NO: 16
352 <211> LENGTH: 80
353 <212> TYPE: DNA
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370 acccgtggag gacaaggatg 80
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374 <211> LENGTH: 80
375 <212> TYPE: DNA
376 <213> ORGANISM: Homo sapiens
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385 <211> LENGTH: 80
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392 cattctgaat gccacactca 80
395 <210> SEQ ID NO: 20
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403 ggcagaagaaag gctcaagttc 80
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RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 12/12/2006  
PATENT APPLICATION: US/10/510,677               TIME: 14:39:31

Input Set : F:\API-01-20-US-SeqList.ST25.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1663

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/510,677

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TIME: 14:39:31

Input Set : F:\API-01-20-US-SeqList.ST25.txt  
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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1620